



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1133377  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1133377

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*  
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*  
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Noble Petroleum, Inc.
Well Name	HANNAFORD 1
Doc ID	1133377

All Electric Logs Run

Compensated Neutron Density Log
Dual Induction Log
Compensated Sonic Log
Sonic Cement Bond Log

Form	ACO1 - Well Completion
Operator	Noble Petroleum, Inc.
Well Name	HANNAFORD 1
Doc ID	1133377

Tops

Name	Top	Datum
Heebner	1516	-89
Brown Lime	1722	-295
Lansing	1774	-347
BKC	2130	-703
Marmaton	2184	-757
Mississippian	2270	-843
Hunton	2441	-1014
Viola	2476	-1049
Simpson	2592	-1165
Arbuckle	2629	-1202



**CONSOLIDATED**  
Oil Well Services, LLC

TICKET NUMBER 41250

LOCATION Eureka KS

FOREMAN Shannon Feck

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**

**CEMENT** API # 15-115-21438

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-27-13		Hanna Ford #1	36	215	4 E	Marion
CUSTOMER <u>Noble Petroleum Inc</u>			C+6 Drig			
MAILING ADDRESS <u>3101 N. Rock Rd Ste 125</u>						
CITY <u>Wichita</u>	STATE <u>KS</u>	ZIP CODE <u>67226</u>				
TRUCK # DRIVER TRUCK # DRIVER						
			<u>445</u>	<u>Dave G</u>		
			<u>515</u>	<u>Chris B</u>		

JOB TYPE S/P HOLE SIZE 12 1/4" HOLE DEPTH 217' CASING SIZE & WEIGHT 8 5/8"  
 CASING DEPTH 212 G.L. DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.5-15# SLURRY VOL 32 Bbl WATER gal/sk 6.4 CEMENT LEFT in CASING 15'-20'  
 DISPLACEMENT 13 Bbl DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 5 BPM

REMARKS: Safety Meeting, Rig up to 8 5/8" casing. Break circulation w/ 5 Bbl water, mixed 125 SKS class "A" cement w/ 3% calcium, 2% gel and 1/4# Flocele/sk @ 14.5-15 #/gal. Displae w/ 13 Bbl water & shut casing in. Good circulation @ all times 7 Bbl slurry to pit. Job complete

"Thanks Shannon & Crew"

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	825.00	825.00
5406	25	MILEAGE	4.00	100.00
11045	125 SKS	Class "A" cement	14.95	1868.75
1102	350 #	Calcium @ 3%	.74	259.00
1107	32 #	Flocele @ 1/4#/sk	2.35	75.20
1118B	235 #	Gel @ 2%	.21	49.35
5407	5.88 Tons	Ton mileage bulk Truck	m/c	350.00
			Sub Total	3527.30
			7.8% SALES TAX	175.67
			ESTIMATED TOTAL	3702.97

Ravin 3737

AUTHORIZATION Colton TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



**CONSOLIDATED**  
Oil Well Services, LLC

TICKET NUMBER 41205  
LOCATION EUREKA  
FOREMAN KEVIN MCCOY

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-6676

**FIELD TICKET & TREATMENT REPORT**

**CEMENT** API 15-115-21438 KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-3-13	5631	HANNA FORD # 1	36	215	4E	MARION

CUSTOMER	MAILING ADDRESS	CITY	STATE	ZIP CODE
Noble Petroleum Inc.	3101 N. Rock Rd.	Wichita	KS	67226

TRUCK #	DRIVER	TRUCK #	DRIVER
520	John S.		
515	Joey K.		
637	Matt R.		

JOB TYPE Longstring HOLE SIZE 7 7/8 HOLE DEPTH 2690' K.B. CASING SIZE & WEIGHT 5 1/2 14" NEW  
 CASING DEPTH 2679' 6" G.L. DRILL PIPE 2682' K.B. TUBING  OTHER PBTD 2669' G.L.  
 SLURRY WEIGHT 13.6" SLURRY VOL 33 BBL WATER gal/ak 9.0 CEMENT LEFT in CASING 10'  
 DISPLACEMENT 65.3 BBL DISPLACEMENT PSI 800 PSI 1200 Bump Plug RATE 5 BPM

REMARKS: Safety Meeting: Rig up to 5 1/2 casing, Break Circulation w/ 5 BBL fresh water. Pump 15 BBL Metasilicate Pre Flush, 5 BBL water spacer. Mixed 100 SKS THICK Set Cement w/ 5" Kol-Seal/sk @ 13.6" /gal = 33 BBL slurry. Wash out Pump & Lines. Shut down. Release Latch down Plug. Displace Plug to Seat w/ 65.3 BBL fresh water. Final Pumping Pressure 800 PSI. Bump Plug to 1200 PSI. wait 2 minutes. Release Pressure, Float & Plug Held. Good Circulation @ ALL Times while Cementing. Job Complete. Rig down.

Centralizers on #1,3,5,7,9,12 Baskets on #4,10

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1030.00	1030.00
5406	25	MILEAGE	4.00	100.00
1126 A	100 SKS	THICK Set Cement	19.20	1920.00
1110 A	500 "	KOL-SEAL 5"/SK	.46	230.00
1111 A	100 "	Metasilicate Pre Flush	2.00	200.00
5407	5.5 TONS	TON Mileage BULK Delv.	M/c	350.00
5502 C	4.5 HRS	80 BBL VAC TRUCK	90.00	405.00
1123	3000 gals	City water	16.50/1000	49.50
4203	1	5 1/2 Guide Shoe	160.00	160.00
4228 B	1	5 1/2 API insert	172.00	172.00
4454	1	5 1/2 Latch down Plug	254.00	254.00
4104	2	5 1/2 Cement BASKETS	229.00	458.00
4130	6	5 1/2 X 7 7/8 Centralizers	48.00	288.00
		Sub TOTAL		5616.50
		THANK You	7.8%	SALES TAX
				ESTIMATED TOTAL
				5907.56

Ravin 3797

AUTHORIZATION Gay L Reed

TITLE X

DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



**CONSOLIDATED**  
Oil Well Services, LLC

TICKET NUMBER 41209  
LOCATION EUROKA  
FOREMAN KEVIN MCCOY

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**

CEMENT API # 15-115-2143B

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-13-13	5631	HANNAFORD # 1	36	215	4E	MARION
CUSTOMER Noble Petroleum, inc.			D.S. & W Well Service			
MAILING ADDRESS 3101 N. Rock Rd.			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY Wichita			445	DAVE G.		
STATE KS			479	CHRIS M.		
ZIP CODE 67226			452 T103	JIM M.		

JOB TYPE Squeeze HOLE SIZE \_\_\_\_\_ HOLE DEPTH 2690' KB CASING SIZE & WEIGHT 5 1/2" 14"  
 CASING DEPTH 2679.95 E.L. DRILL PIPE \_\_\_\_\_ TUBING 2 7/8" Euc Vol. 2405.31 = 13.9 BBL OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.2 SLURRY VOL 16 BBL WATER gal/bk \_\_\_\_\_ CEMENT LEFT in CASING 0'  
 DISPLACEMENT 4.75 BBL DISPLACEMENT PSI 2500 MIX PSI 1050 - 600 RATE 3.7 BPM

REMARKS: Safety Meeting: PERFS 2441 - 42 1/2 w/ 6 shots. 2 7/8" Tubing & Packer Set @ 2405.31'  
Load & Pressure Annulus to 400 PSI. Release Pressure. Left Annulus open. Establish injection rate  
into Hutton Perfs @ 3.7 BPM @ 1050 PSI. Mixed 50 SKS CLASS "A" Cement w/ 1/4" Felt Pellets @  
14.2/gal = 16 BBL Slurry. Mixing Pressure 1050 PSI - 600 PSI @ 3.7 BPM. Start Displacement @  
1.7 BPM @ 0 PSI. 1 BBL in @ 0 PSI, 2 BBL @ 200 PSI 3 BBL @ 400 PSI 4 BBL @ 900 PSI 4.7 BBL @ 2500  
PSI. 15IP 1700 PSI. Stage to 2500 PSI. Holding @ 2500 PSI. Release Pressure. No flow back. Release PKR.  
Back wash w/ 16 BBL water. Reset PKR. Repressure Cement to 2500 PSI. Release PKR. Back wash  
thru PERFS. AFTER BACK WASHING THRU PERFS we were getting a good show of oil white  
BACK WASHING. PULLED 3 JTS. Set PKR @ ~ 2373'. Repressure PERFS to 2300 PSI. Formation  
TAKING FLUID. Shut down 5 mins. Resume Pumping Formation taking fluid @ 1500 PSI. Shut well in w/ PKR UNSET.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1030.00	1030.00
5406	25	MILEAGE	4.00	100.00
1104 S	50 SKS	CLASS "A" Cement	14.95	747.50
1150	12 "	FELT Pellets 1/4"/SK	105.00	1260.00
5407	2.35 TONS	TON Mileage BUCK DELV.	M/G	350.00
5501 C	5 HRS	Water Transport	112.00	560.00
1123	5500 GALS	City water	16.50/1000	90.75
			Sub Total	4138.25
		THANK You	7.8 %	SALES TAX 163.66
			ESTIMATED TOTAL	4301.91

AVIN 3737  
 AUTHORIZATION [Signature] TITLE X DATE \_\_\_\_\_

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**CONSOLIDATED**  
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

TICKET NUMBER 38519  
LOCATION 180  
FOREMAN LARRY STORM

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-18-13	51631	Hannaford #1	32	21S	4E	Wheeler
CUSTOMER Noble Petro Inc			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS 3101 W Rock Rd Ste 125			603	Jeff		
CITY STATE ZIP CODE Wichita KS 67226			491	Jeremy A		
			692	TRACY		
			339	LARRY		

JOB TYPE Square B HOLE SIZE \_\_\_\_\_ HOLE DEPTH \_\_\_\_\_ CASING SIZE & WEIGHT 5 1/2  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ TUBING 2 3/8 OTHER Packer 2342  
 SLURRY WEIGHT 15.0 SLURRY VOL 21 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 65 lb  
 DISPLACEMENT 15.94 DISPLACEMENT PSI 2600 MIX PSI 1900 RATE 2 1/2 to 2 1/2 bbls

REMARKS: Repressured Annulus to 500 lbs - Shut in - 10.35 bbls to 1040  
Let Rate of 2 1/2 bbls at 2000 lbs - Mixed 97 sks A - Flushed  
Pump & 1900s - Displaced 14 1/2 bbls - Staged Cement to 2500 lbs  
15 min - Release w/ moved Repressured to 2500 lbs - Shut IDuro.  
Back washed 19 bbls - Filled 2 1/2 hrs Reset Packer - Repressured to  
1000 lbs Shut in pipe in.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1325.00	1325.00
5406	27	MILEAGE	4.00	108.00
11045	97	sks Class A	14.95	1450.15
5407	1	Bulk Debrerly	350.00	350.00
5502C	5	80 VAC TRUCK	90.00	450.00
1123	4	City Water	16.50	66.00
4482	1	5 1/2 32A Packer Rental	1000.00	1000.00
4478	1	5 1/2 x 2 1/2 Stripper Rental	287.00	287.00
		Subtotal		5036.15
		SALES TAX ESTIMATED		
		TOTAL		

Ravin 3737

AUTHORIZATION Dary J Reed TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	NOBLE PETROLEUM	Job Number	M463
Well Name	HANNAFORD #1	Representative	MIKE COCHRAN
Unique Well ID	DST#1 2248-2286 MISSISSIPPIAN	Well Operator	NOBLE PETROLEUM
Surface Location	SEC.36-21S-4E MARION CO.KS.	Report Date	2012/01/31
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	FRANK MIZE
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#1 2248-2286 MISSISSIPPIAN		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2012/01/30	Start Test Time	16:40:00
Final Test Date	2012/01/31	Final Test Time	01:00:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

### Test Results

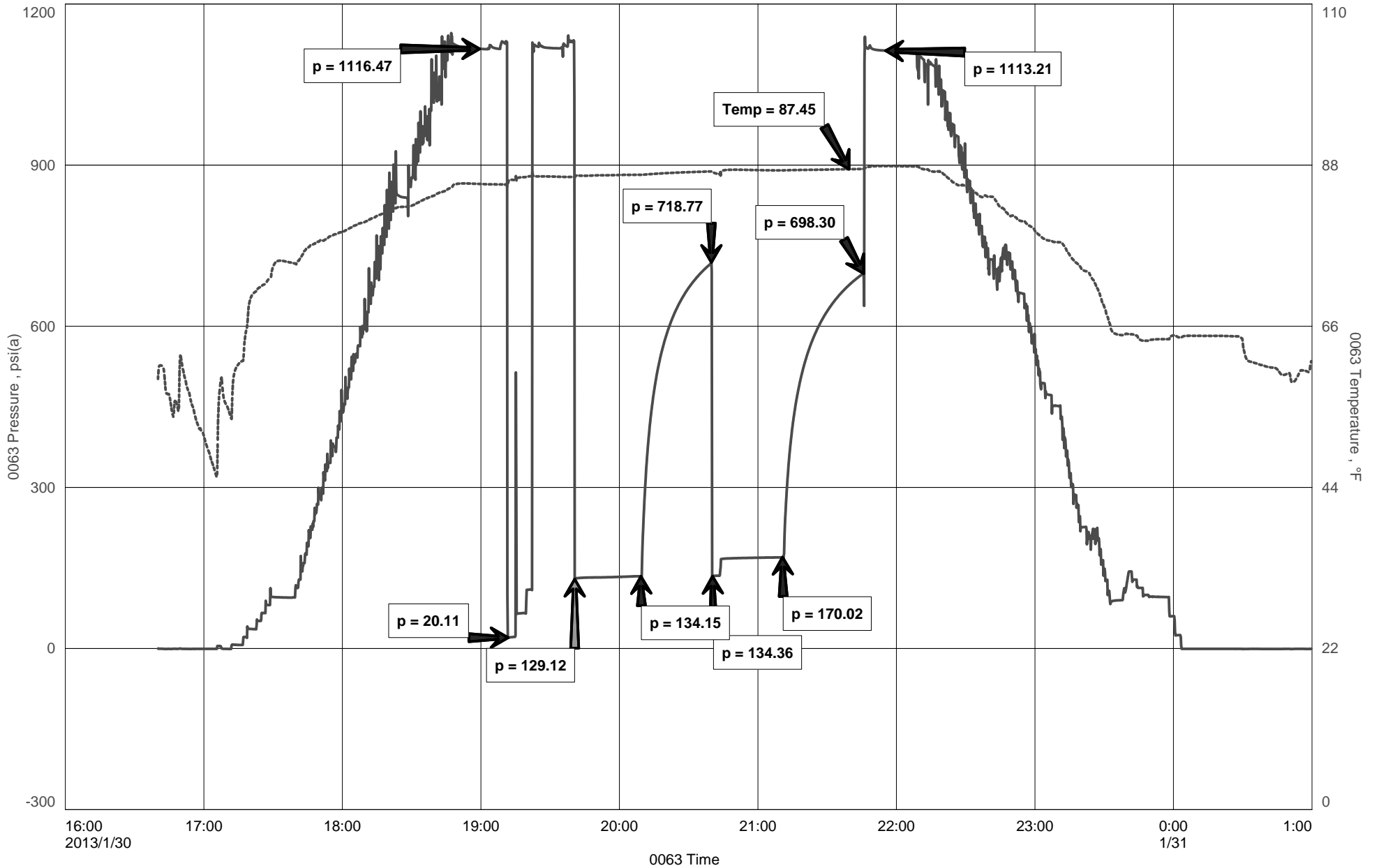
Remarks **RECOVERED:**  
335' DM 100% MUD W/ SOME GASSY BUBBLES (157' DP, 178' DC)  
335' TOTAL FLUID

**TOOL SAMPLE:** 100% MUD W/ A SPOT OF OIL & SOME GASSY BUBBLES

NOBLE PETROLEUM  
DST#1 2248-2286 MISSISSIPPIAN  
Start Test Date: 2012/01/30  
Final Test Date: 2012/01/31

HANNAFORD #1  
Formation: DST#1 2248-2286 MISSISSIPPIAN  
Pool: WILDCAT  
Job Number: M463

# HANNAFORD #1





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: \_\_\_\_\_

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

Formation Test No. \_\_\_\_\_ Interval Tested from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Total Depth \_\_\_\_\_ ft.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides \_\_\_\_\_ P.P.M. Drill Pipe Length \_\_\_\_\_ ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: \_\_\_\_\_  
2nd Open: \_\_\_\_\_

Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (D) \_\_\_\_\_ P.S.I.  
Final Flow Period..... Minutes \_\_\_\_\_ (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
Final Closed In Period..... Minutes \_\_\_\_\_ (G) \_\_\_\_\_ P.S.I.  
Final Hydrostatic Pressure..... (H) \_\_\_\_\_ P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	NOBLE PETROLEUM	Job Number	M464
Well Name	HANNAFORD #1	Representative	MIKE COCHRAN
Unique Well ID	DST#2 2413-2442 HUNTON	Well Operator	NOBLE PETROLEUM
Surface Location	SEC.36-21S-4E MARION CO.KS.	Report Date	2013/02/01
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	FRANK MIZE
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#2 2413-2442 HUNTON		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2013/01/31	Start Test Time	16:45:00
Final Test Date	2013/02/01	Final Test Time	02:05:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

### Test Results

Remarks **RECOVERED:**

78' GO 2% GAS, 98% OIL  
504' GHMCO 2% GAS, 30% OIL, 68% MUD W/ A TR OF WTR (326' DP, 178' DC)  
582' TOTAL FLUID

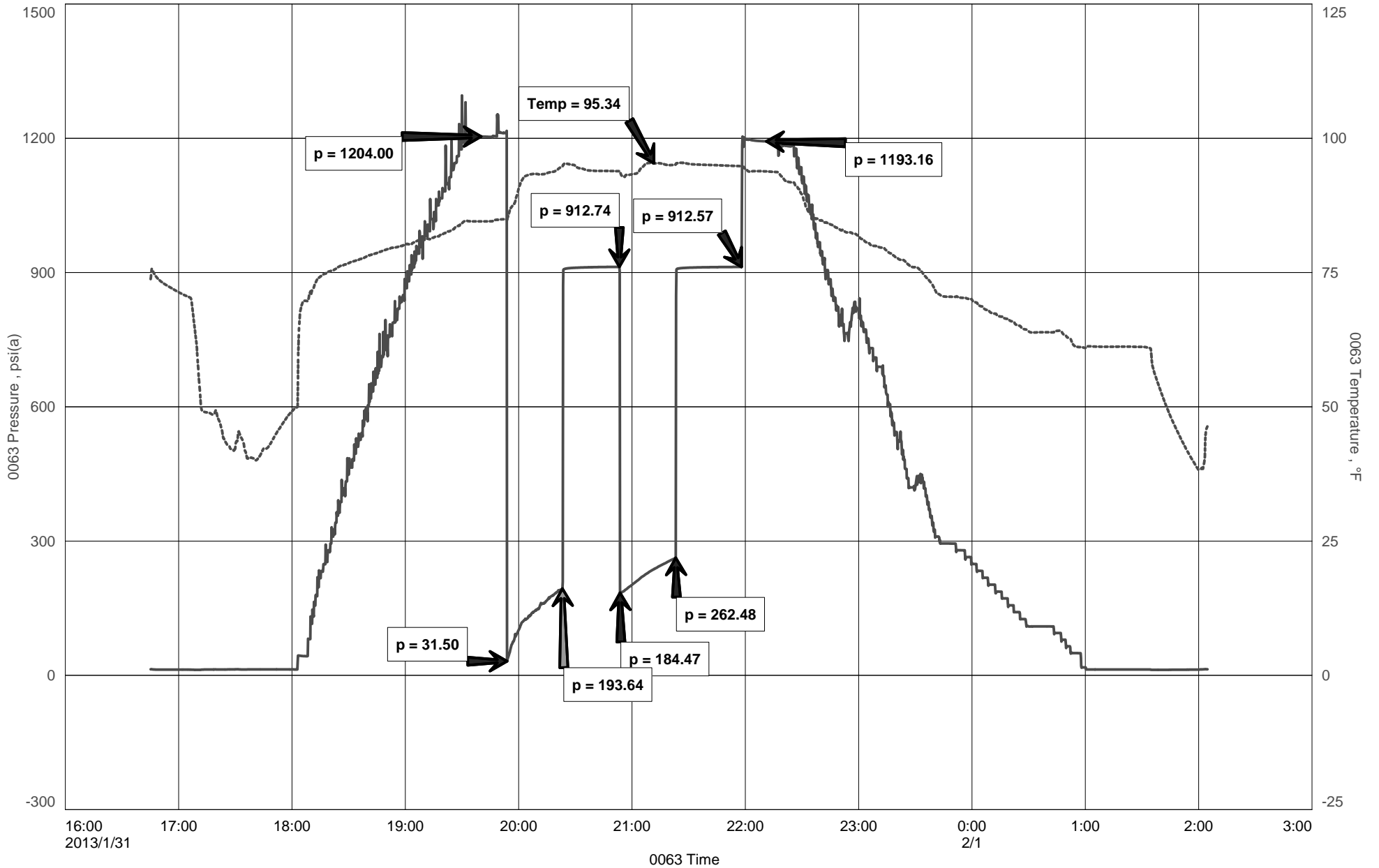
GRAVITY: 36.2 @ 60

TOOL SAMPLE: 100% OIL

NOBLE PETROLEUM  
DST#2 2413-2442 HUNTON  
Start Test Date: 2013/01/31  
Final Test Date: 2013/02/01

HANNAFORD #1  
Formation: DST#2 2413-2442 HUNTON  
Pool: WILDCAT  
Job Number: M464

# HANNAFORD #1





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: \_\_\_\_\_

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

Formation Test No. \_\_\_\_\_ Interval Tested from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Total Depth \_\_\_\_\_ ft.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides \_\_\_\_\_ P.P.M. Drill Pipe Length \_\_\_\_\_ ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: \_\_\_\_\_  
2nd Open: \_\_\_\_\_

Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (D) \_\_\_\_\_ P.S.I.  
Final Flow Period..... Minutes \_\_\_\_\_ (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
Final Closed In Period..... Minutes \_\_\_\_\_ (G) \_\_\_\_\_ P.S.I.  
Final Hydrostatic Pressure..... (H) \_\_\_\_\_ P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	NOBLE PETROLEUM	Job Number	M465
Well Name	HANNAFORD #1	Representative	MIKE COCHRAN
Unique Well ID	DST#3 2455-2474 HUNTON	Well Operator	NOBLE PETROLEUM
Surface Location	SEC.36-21S-4E MARION CO.KS.	Report Date	2013/02/01
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	FRANK MIZE
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#3 2455-2474 HUNTON		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2013/02/01	Start Test Time	11:10:00
Final Test Date	2013/02/01	Final Test Time	21:25:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

### Test Results

Remarks **RECOVERED:**

1796' OSMW 2% OIL, 83% WTR, 15% MUD (1677'D.P,119'D.C.)  
59' MW 80% WTR, 20% MUD (59' D.C.)  
1855' TOTAL FLUID

CHLOR: 8,000 PPM  
PH:7.5  
RW: .80 @ 65 DEG

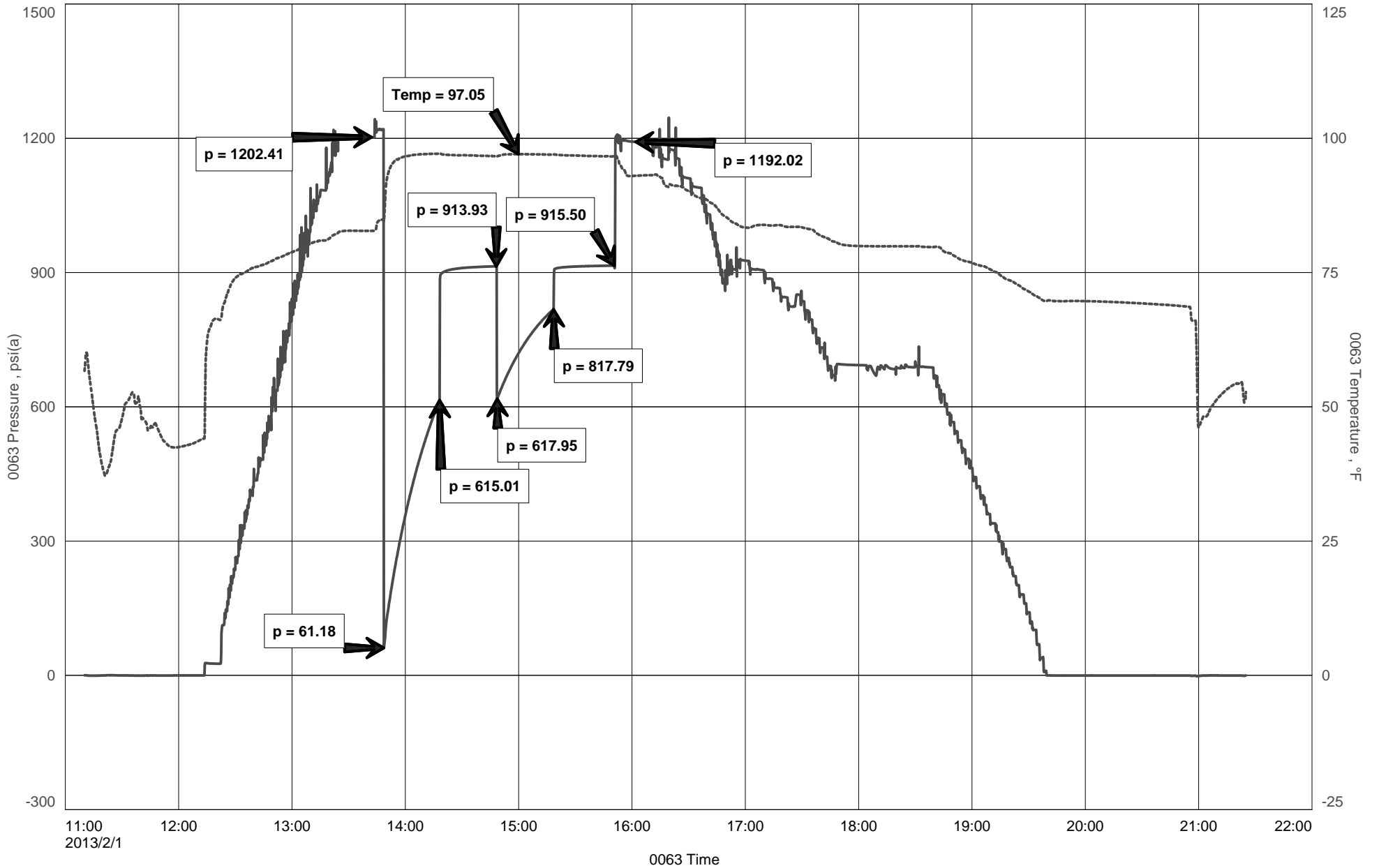
TOOL SAMPLE: 4% OIL, 96% WTR



NOBLE PETROLEUM  
DST#3 2455-2474 HUNTON  
Start Test Date: 2013/02/01  
Final Test Date: 2013/02/01

HANNAFORD #1  
Formation: DST#3 2455-2474 HUNTON  
Pool: WILDCAT  
Job Number: M465

# HANNAFORD #1





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: \_\_\_\_\_

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

Formation Test No. \_\_\_\_\_ Interval Tested from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Total Depth \_\_\_\_\_ ft.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides \_\_\_\_\_ P.P.M. Drill Pipe Length \_\_\_\_\_ ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: \_\_\_\_\_  
2nd Open: \_\_\_\_\_

Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (D) \_\_\_\_\_ P.S.I.  
Final Flow Period..... Minutes \_\_\_\_\_ (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
Final Closed In Period..... Minutes \_\_\_\_\_ (G) \_\_\_\_\_ P.S.I.  
Final Hydrostatic Pressure..... (H) \_\_\_\_\_ P.S.I.

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Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

April 16, 2013

Jay Ablah  
Noble Petroleum, Inc.  
3101 N ROCK RD STE 125  
WICHITA, KS 67226-1300

Re: ACO1  
API 15-115-21438-00-00  
HANNAFORD 1  
NW/4 Sec.36-21S-04E  
Marion County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Jay Ablah